IPC - Projects

OC-M-69467

Director of Computer Services

14 JUL 1969

Director of Communications

Signal Analysis Programs

25X9

1. In order to increase its signal analysis capability, the Special Support Center of OC-SPD has obtained a number of computer programs during the past two years. Two signal classification programs and a signal enhancement program, each having a number of supporting routines which can be also used as individual general purpose programs, were developed by external contractors; a number of general purpose signal analysis programs were written by the Scientific Applications Division of DD/S&T/OCS; and, an optimum seeking classifier with feature evaluation routine was obtained from DD/S&T/ORD/AN. These programs comprise a basic digital signal analysis package as depicted by the functional chart which is contained herein as an attachment.

2. These basic signal analysis programs are not presently located in one centralized location, nor are they compiled into a documented and indexed package. Certainly, a centrally located package of programs would be very advantageous to the Special Support Center; and, as discussed between our respective personnel, it would probably serve to generate optimum usage and effectiveness of the programs. Therefore, it is requested that the Scientific Applications Division accept the task of compiling the signal analysis programs into a documented and indexed package which can be based at the DD/S&T/OCS computer facility. In order to implement the task, the Special Support Center will deliver to the Scientific Applications Division the card decks, operating instructions, and documentation of all signal analysis programs it has had developed. In addition, any assistance that may be required to complete the task will be provided by the Special Support Center liaison officer.

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3. Personnel from the Scientific Analysis Division have been extremely helpful to the Special Support Center analysis personnel during the past year, both in program development and in preprocessing signals on the ANDI system. The assistance provided by both [redacted] and [redacted] in this respect is greatly appreciated.

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4. [redacted] who has served as the Special Support Center liaison officer with the Scientific Applications Division, is in the process of being transferred. His liaison duties have been assumed by Mr. [redacted].

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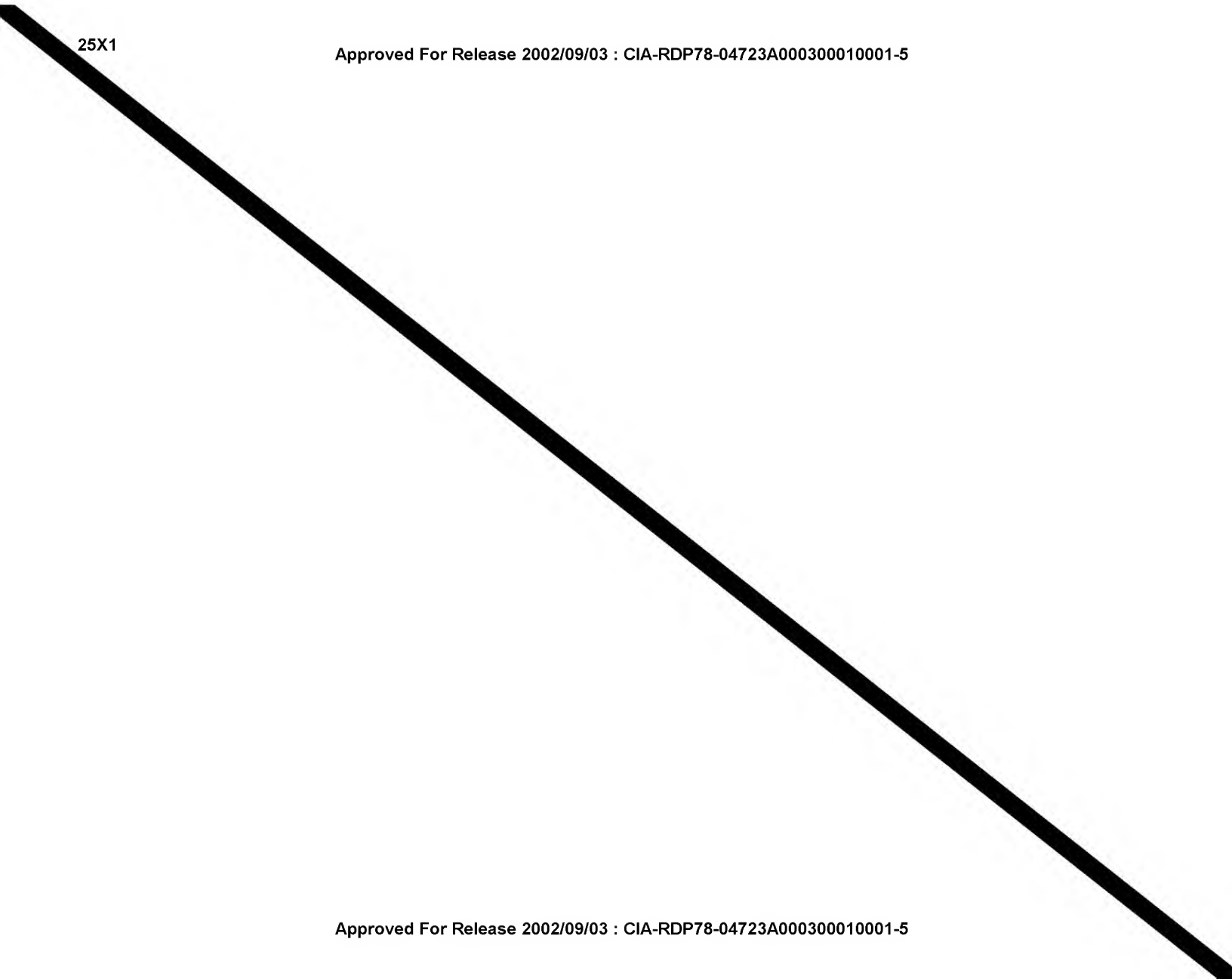
[redacted]

Att
Functional Chart



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IPC - Projects

6 December 1968

MEMORANDUM FOR THE RECORD

SUBJECT: Request for Contractual Services - Office of Communications [redacted] 25X1

1. The Executive Officer of the Office of Communications telephoned me on 27 November 1968 to say that he had a request for contractual services to provide computer support to one of their contractors working on an R&D project. I suggested that he send it here for review before sending it on to the Office of Logistics for action.

2. I received the request on Monday 2 December 1968. The Office of Research and Development/DDS&T has been furnishing computer support to the contractor. ORD is changing its hardware configuration and will not be able to continue to furnish this service during December and the three months following. The project is due for completion in March 1968 and it is considered important to maintain continuity.

3. I discussed this with the Director of Computer Services after having learned from the Office of Communications that they had not, and Mr. Briggs agreed that he should determine the feasibility of having OCS furnish the service since ORD can no longer do it. Subsequently the project officer in the Office of Communications discussed the question with the Chief of the Operations Division/OCS and it was agreed that OCS could furnish about 25% of the computer support required.

4. I reported this full sequence of events to the Chief, Information Processing Staff/OPPB and obtained his concurrence with the proposal that we proceed with the request for contractual services for that portion of the computer support which OCS is not able to furnish.

[redacted] 25X1A

Chief, Support Services Staff

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Approved For Release 2002/09/03 : CIA-RDP78-04723A000300010001-5

IPC-Projects

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22 APR 1968

MEMORANDUM FOR: Chief, Executive Staff

ATTENTION : Special Assistant for ADP

SUBJECT : ADP Progress Report

SANCA

1. Reprogramming of the SANCA system is continuing with two (2) part-time programmers from OCS Management Support Division and one (1) full-time programmer from the OCS Technical Staff. The new SANCA tape search program has been operating since February 1968. The Data Cell search program is nearing completion and debugging and testing by this office will begin in May.

2. The new SANCA update programs, for tape and for the Data Cell, will probably be the last programs completed and it is hoped that these programs will be completed by July 1968.

3. Summer employees will again be assigned to work on "clean-up" projects related to SANCA. They will be assigned to such tasks as adding biographic information to the SANCA records.

SPECLE

1. The new SPECLE system became operational on 15 April 1968. The SPECLE records are now stored on disk and updates and searches of the file can be performed on a daily basis.

2. Remarks information contained on the SPECLE manual back-up records will soon be coded and included in the SPECLE machine record so that consideration can be given to eliminating the manual records at a later date.

3. SR&CD feels that the next step in the development of the pfe-sent SPECLE system should be remote access of the SPECLE file by Cathode Ray Tube. Three (3) CRT's are already installed in SR&CD. It is possible that one of the existing CRT's could handle telephonic requests for special clearance information if a remote access capability is acquired.

Ft. Holabird Communications Link

1. The installation of communications equipment by STRATCOM/U.S. Army is still holding up this project despite the fact that STRATCOM

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will be using CIA furnished cable for the installation. The new target date for completing the installation is now 5 May 1968.

3. The Commanding General of Ft. Holabird and three members of his staff recently toured this Agency's ADP facilities and inspected the 1050 communications equipment in Room GE-05.

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Chief, Security Records and
Communications Division

SECRET

DD/S 68-1454

MEMORANDUM FOR: Director, Planning, Programming and Budgeting

SUBJECT : Intelligence Information Processing Project Summaries

1. In reference to the attached memorandum from the Chief, Support Services Staff dated 19 March 1968 I fully concur in the position taken by [redacted] I am particularly concerned over the inclusion of the Signal Center/Cable Secretariat as I do not want the Agency communications system with all its component parts and especially its relay centers and terminal signal centers to be brought within the purview of the various committees concerned with intelligence information processing. The communications system concerns itself primarily with the transmission of data in various forms. It does not manipulate the data and accordingly this is not, in my judgment, within the purview of intelligence information processing. We are having enough difficulties in maintaining our integrity in light of the trend toward centralization in the national communications network. I do not want to further dilute our primary responsibilities by offering up our communications system for review, analysis and subsequent judgments by non-Agency committee groups.

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2. In like manner I view EPIC as simply an internal, technical technique of a printing service. It does not involve manipulation of information but concerns itself only with forms of reproduction. I am quite willing to offer this system to the reproduction elements of Government as an efficient and promising technique but it is not information processing in the accepted term.

3. I view the SANCA system somewhat differently by the nature of its operation, however, I do not wish to offer it up for any review which will in the slightest dilute our control and management of this system and the security of its sensitive information.

R. L. Bannerman
Deputy Director
for Support

Att: Memo dtd 19 Mar 68 for C/IPS
cc: C/SSS, same subj

SECRET

19 March 1968

MEMORANDUM FOR: Chief, Information Processing Staff

SUBJECT : Intelligence Information Processing Project Summaries

REFERENCE : Your Memorandum to IP Coordinators dated 12 March 1968, same subject

1. Attached are draft summaries for the following Support Directorate activities:

a. EPIC

b. Signal Center/Cable Secretariat

c. SANCA

2. As I indicated at our meeting last week, I have reservations about including these projects in a listing developed for the purpose of responding to NSAM 368 and the PFIAB paper. These papers are concerned with "intelligence information handling." That term is ill-defined and ambiguous in its present usages. To include these Support applications in a listing prepared for the purpose of responding to NSAM 368 tends to further distort the meaning of the term "intelligence information handling." The EPIC system was developed primarily for the purpose of improving the Agency's printing capability. The fact that intelligence information is printed is only incidental to that purpose. EPIC is concerned with the mechanics rather than the substance. It makes no contribution to quality or content of the product being printed.

3. The same reasoning applies to the Signal Center/Cable Secretariat automated communications terminal. This system is being developed primarily for the purpose of improving the mechanical processing of messages without regard to their content. The fact that precedence and security controls must be built into the system does not alter the basic consideration that the objective of this system is to process messages without contributing to or detracting from their content.

4. The SANCA system is somewhat different and admittedly a better candidate for the listing than the other two although I still do not concede that it fits within a reasonable interpretation of the meaning of "intelligence information handling." An additional concern with this, as with the other two systems, is that while they may serve

the Community and there may be interfaces with other Community systems, we can foresee no circumstances under which the Agency could accede to their management in any way other than under the complete internal control of CIA. These are internal CIA systems which do not belong under the intelligence information handling blanket in any context which may tend to dilute or distort their primary objectives, or the manner in which they are used and managed.

5. If The inclusion of these applications in the proposed listing may help to accomplish the purpose of the intended response to NSAM 368, we will accede. However, they should be footnoted or highlighted in some way to make clear that they are not intelligence information handling projects. I also feel that some effort should be made during this total process to develop some reasonable and acceptable definition, or at least delimitation of "intelligence information handling."

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[redacted]

Chief, Support Services Staff

Attachments

DDS/SSS/RHW:jms (19 March 1968)
Distribution:
Orig & Adse w/atts
1 - SSS Subject w/atts
1 - SSS Chrono w/o atts

1. Project Name: Electronic Printing for Intelligence Composition (EPIC)

2. Action Components: Printing Services Division and Office of Computer Services

3. User Components:

   DDI: OBI, OCI, OCR, and ORR

   DDS: OL, OTR, and OP

   DDS&T: OSI and FMSAC

4. Specific Project Objective: The objective of this system is to improve the Agency's printing production capacity by: automation of certain tasks concerned with current typesetting requirements; providing a means for photo composition of material and providing a means for processing machine language produced on customer typewriters.

5. Project Description: This is a general purpose, computer assisted, phototype-setting system with Agency-wide printing composing applications. The system provides a means for producing fully composed pages of typeset material on a film medium. It will accept any machine language input and produce a 6 level tape to run a Photon 513. The system was developed to set textual and tabular matter and utilize ADP and printing equipment.

6. Dates at which an Operational Evaluation can be expected: Thus far, the system has been designed with the text capability only. Development began late in FY 1964 and the system became operational in August 1966. Future plans include extensions to set tabular matter, typesetting and page composition of material generated as a by-product of existing and proposed systems utilized by Agency and other Intelligence Community components, and typesetting of fast moving intelligence reports.

7. Funding:

Based on 5 Year ADP Plan

	Personnel	Total Funding
FY 69	2	72,660
FY 70	2	273,340
Total FY 69 - 73		542,588
FY 73	4	

1. Project Name: Signal Center/Cable Secretariat Automation

2. Action Components: Office of Communications

3. User Components: Office of Communications and Cable Secretariat

4. Specific Project Objectives:

   Expedite the delivery of narrative messages between Headquarters Signal Center and the consumer.

   Reduce the amount of human interface required in the message processing functions of accounting, indexing, annotating and distributing.

   Improve the process of converting outgoing messages to machine language for transmission through the communications media.

   Reduce the need for paper copy at the various terminal processing points.

   Install electrical delivery mechanisms between terminals and consumer where practical.

   Provide for electronic random access bulk storage and retrieval of narrative messages.

5. Project Description: A completely dedicated communications automated message terminal processing system to replace the existing manual processing, reproduction and distribution system in the Washington

Signal Center and the Cable Secretariat complex.

6. Dates at which an Operational Evaluation can be expected: Plans are to prepare a specification for the automation of the Signal Center and the Cable Secretariat function and to publish it to industry in FY 69. The earliest time at which an operational evaluation can be expected is 1972. The specification will be prepared in such a way that automation can take place in increments as economy and feasibility warrant. The State Department recently activated a system which is designed to solve similar problems and the military has a prototype system under test at Ft. Richie. The Agency will be able to benefit greatly from experience gained through these projects.

7. Funding:

Funds

	O/C	Cable Secretariat
FY 69		
FY 70		
FY 71		
FY 72		
FY 69-73		

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Personnel

Communications: Existing resources from Office of Communications Staffs will be utilized for development and implementation. Plan is for existing personnel to operate the system.

Cable Secretariat: Some increase is expected. (Approximately 10 personnel.)

1. Project Name: Security Automated Name Check Activity (SANCA)

2. Action Component: Office of Security

3. User Component: Office of Security

4. Specific Project Objective: To provide an automated method for searching and updating the master index of ~~XXXXXXX~~ Agency Personnel Security files.

5. Project Description: Automated system for searching Office of Security indices. Original design called for magnetic tape files containing a complete index of security file records which would be updated and searched by batched punched card input. Conversion from magnetic tape to disk storage is approximately 80% completed; this will add direct access capability to the system through CRT terminals.

6. Date at which an Operation Evaluation can be expected: Original batch processing system is operational. Extension to direct access can be expected early in FY 1969.

   Other related activity includes the Ft. Holabird "Computer" link: A planned project to exchange via encrypted telecommunications name check requests and replies in Hollenth card form, which can be searched through the SANCA files. This activity should be operational late in FY 68.

7. Funding:

4 March 1968

MEMORANDUM FOR: Record

SUBJECT : TORQUE

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1. I had an opportunity to watch [redacted] using TORQUE to manipulate the CONIF file yesterday. The following comments are personal opinions and are not intended to dissuade anyone from using TORQUE in an operational setting.

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2. One of the things that bothered me most was that [redacted] had considerable difficulty getting his queries set up. It seemed to me that the primary reason for this is that TORQUE query formats are heavily laden with "programmer conventions", quotes around field selectors that are going to select an alpha item, for example. Next in line, an incorrectly formatted query must be completely redone. Another annoying limitation is that TORQUE does not identify the mistake for the operator which formats.

3. This is a "brute force" query procedure, serial access, with a restrictive "language", as such it does not represent any great advance. Its advantage is that its here and with the limitations mentioned above, it works. I would not want to consider using TORQUE unless there was some guarantee of a more sophisticated capability in the immediate future (9-12 months). TORQUE is basically a punch card query system converted to a remote console. It is quite similar to the "query" procedure for using PSTAT (Princeton Statistics) and other library routines from the same era.

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4. The time sharing system has bugs in it. [redacted] query on his console and vice versa. If TORQUE and time sharing go together, then there will be some real howls from users. There is no capability for updating files in this system, another source of difficulty.

[redacted]

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IPC - Projects

CONFIDENTIAL

28 NOV 1967

MEMORANDUM FOR: Chief, Executive Staff

ATTENTION : Special Assistant for ADP

SUBJECT : ADP Systems Progress - Projects
SANCA, SEADORS, SPECLE

SANCA

25X1A Programming for the new remote random access SANCA system is continuing. [redacted] of the OCS Technical Staff remains the sole programmer assigned to the job. The new search routine has been written and is now being tested and debugged by [redacted] of this 25X1A office and [redacted] This search routine is designed for a tape system and it will be part of the tape system which will back-up the random access system.

OCS would like to begin using the new search program on the newly designed SANCA master (5 reels of mag tape) as soon as possible as an interim system. This new interim tape system, while not as fast as the ultimate random access system, will require considerably less computer time for searching than the present tape system. OCS would like to proceed with the programming of the remote random access system while the interim tape system is being used.

OCS is under some pressure to complete the programming on the new system because the present 7010 COBOL programs must be run on the 360/50/2 which has a 7010 emulator. This computer will be transferred to DDP/RID in March 1968. The new programs are being written in ALC so that they can be run on almost any IBM 360 computer.

This office is working with OCS in an effort to affect a smooth transition from the present tape system, to the interim tape system and eventually to the remote random access system.

OCS, at the request of this office, will probably ask DDP/RID for several hours of computer time each month in the event that the new computer programs are not ready by March 1968. It is possible 25X1A

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that OCS may have to perform a couple of monthly updates of the SANCA master using the present update program and the present master file. The new update routine will be the most difficult to write.

The resulting updated master will be converted to the condensed 5 reel master form which can then be searched on the new OCS 360 computers.

The new update program will make provisions for providing RID with machine language copies of ADDS, CHANGES, and DELETES that are now being sent to RID for inclusion in their index. It is hoped however that this entire program will be re-evaluated in accordance with my memo dated 29 September 1967, (copy given to [redacted] before the reprogramming effort reaches this point.

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SEADORS

The SEADORS system will be placed on a 2314 disk and maintained as a separate system. Hits resulting from SANCA searches will be checked against the SEADORS master file which now approaches 200,000 records or 20,000,000 characters. This file will contain retirement data and permanent charge data. This file will automatically be searched for hits resulting from batch requests and CRT requests.

SPECLE

Programming for the new SPECLE system is nearly completed. The program that prints the output is the only program that is not yet complete. The other programs are being debugged. This system must also be completed by March of 1968 since it is presently run on the 360/50/2 with 7010 emulator which will be transferred to RID.

[redacted]

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Chief, Security Records and
Communications Division